Weather forecast with cable free in-out sensor and radio controlled clock with projection

HBR326P

USER'S MANUAL

INTRODUCTION

Congratulations on your purchase of the HBR326P

The basic package comes with a main unit, which is the weather forecast station, a remote thermo sensor and a power adapter.

The main unit is a capable of keeping track of the maximum and minimum temperature of the location where the sensor is placed. And no wire installation is required as the remote sensor operates with a 433MHz wireless transmission.

The HBR326P offers many more features of which you may find its operation in these operating instructions.

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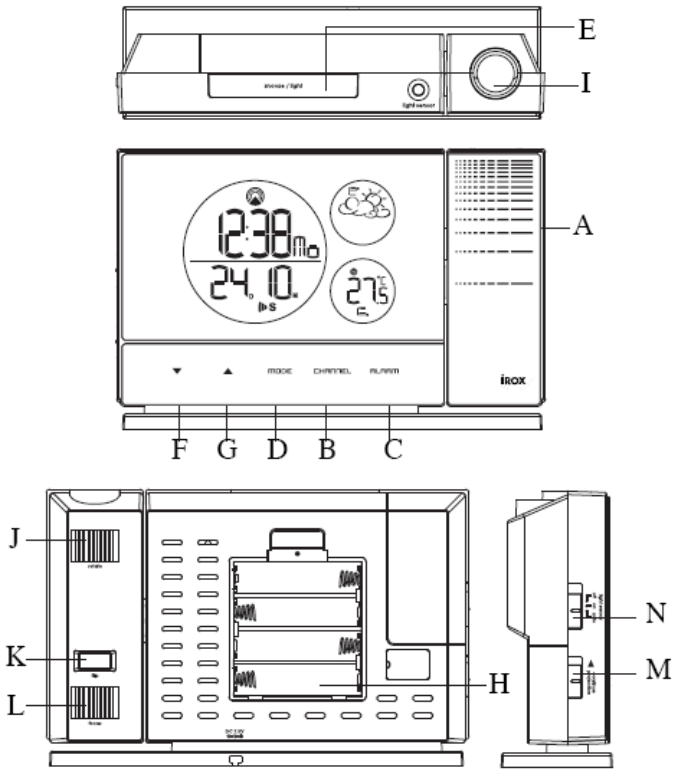
1. DESCRIPTION OF THE OPERATING KEYS AND DISPLAYS

Some keys have a main-function and a secondary function.
The **main**-function you will get when you press it short.
The **secondary** you will get when you press this key for about 3 secs.
The frontal keys are of a new technology. To activate the desired function, just hold a finger on the text.
With each such "press", the unit will also activate the backlight.



A LCD display
Shows all information (time, date, weather forecast, temperatures, alarms)

B Channel button (CHANNEL)
Main: To display the temperature of the different sensors
Secondary: Activate the auto-channel scan

C Alarm button (ALARM)
Main: Display of the wake-up calls and the temperature hi/lo alarm
Secondary: Enter setting of the values

D Mode button (MODE)
Main: Toggles the display mode and confirms entry while setting the values
Secondary: Enter setting of the values

E Light/snooze button (SNOOZE/LIGHT)
Activate the snooze function and backlight

F Down (▼) button
Main: Decreases the value of a setting
Secondary: Start sensor search

G Up (▲) button
Main: Advances the value of a setting
Secondary: Enable/Disable reception of time signal

H Battery compartment
Accommodates four UM-3 or AA size batteries, 1.5V

I – M Projection light and its adjustment
- Press button E [**SNOOZE/LIGHT**] – Projection light will come on and turn off automatically after 5 seconds.
- When plug-in adaptor and turn on the button M [**CONTINUE PROJECTION**], projection light will turn on continuously until the button is switched off or the AC adaptor is pulled off.

- Turn the button L **[FOCUS]** key knob to adjust the focus of projection image
- Button K **[FLIP]**

Main: Press button K **[FLIP]** key to rotate the projection image 180°

Secondary: In the standard mode of the projection, the temperature of channel 1 will be shown together with the time. If this key is pressed and held for 2 secs, then the projected image will change as follows

1- display inside temperature
2- change from inside- to outside temperature every 5 secs
3- display outside temperature (CH 1)

After this, sequence as per above order

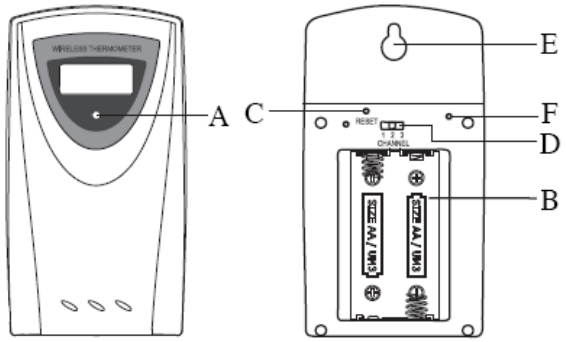
- Turn the button J **[ROTATE]** knob to rotate the image manually.

N Light sensor button

When plug-in adaptor, and the button N is at position

- AUTO: the light sensor function is activated and the LED backlight will turn on automatically when it is dark.
- ON: the LED backlight will turn on whatever the environment is.
- OFF: light sensor function is off.

2. MAIN FEATURES OF THE REMOTE UNIT



A LED indicator
Flashes once when the remote unit transmits a reading. Flashes twice when low battery is detected on sensor unit.

B Battery compartment
Accommodates two AA-size batteries (recommended type: Alcaline)

C Reset button
Press to reset all setting if you have selected different channel.

D Channel selector
Select the channel before you install batteries.

E Wall-mount recessed hole

F °C/°F button

3. PREPARATION FOR USE OF THE HBR326P AND IMPORANT NOTICES

A) Before you begin

Please read this manual and follow the instructions in here:

1. Insert batteries for remote units before doing so for the main unit.

Battery installation for the remote unit:
- Remove the screws on the battery compartment and open it.
- Select the channel (1, 2 or 3)
- Install 2 batteries (UM-3 or AA size 1.5V) strictly according to the polarities shown.
- Replace the battery compartment door and secure its screws.

Battery installation for the main unit:
- Remove the battery lid
- Install 4 batteries (UM-3 or AA size 1.5V) strictly according to the polarities shown.
- Replace the battery lid.

2. Position the remote unit and main unit within effective transmission range, which, in usual circumstances, is 20 to 30 meters.
Note that the effective range is vastly affected by the building materials and where the main and remote units are positioned. Try various set-ups for best result.
Though the remote units are weather proof, they should be placed away from direct sunlight, rain or snow.

Once batteries are in place for the remote unit, they will start transmitting temperature readings at around 45-seconds intervals. The main unit will also start searching for signals for about two minutes once batteries are installed. Upon successful reception, the outdoors temperatures will be displayed. The main unit will automatically update its reading at about 45-second intervals.

If no signal is received, blank " ▪▪.- " will be displayed and the search is interrupted. Hold [▼] for 3 seconds to enforce another search for about 2 minutes. This is useful in synchronising the transmission and reception of the remote and main units.
Repeat this step whenever you find discrepancies between the reading shown on the main unit and that on the remote unit.

B) Low battery warning

When it is time to replace batteries, the respective low-battery indicator [◀▪] will shown up on the indoor or outdoor temperature.

C) Soft-touch key

The HBR326P is using the new soft-touch key technology. It is different from the traditional button. You can use the function key by touching softly on the lens instead of pressing the key.

D) How to check remote temperatures

The wave display on the outdoors temperature indicates the reception of the remote unit is in good order.
If without obvious reasons the display of the outdoor temperature goes " ▪▪.- ", hold [▼] for 3 seconds to enforce an immediate search. If that fails, check:
1. the remote unit is still in place
2. The batteries of both the remote unit and main unit. Replace as necessary.

Note: When the temperature falls below freezing point, the batteries of outdoor units will freeze, lowering their voltage supply and the effective range
3. The transmission is within range and path is clear of obstacles and interference. Shorten the distance when necessary.

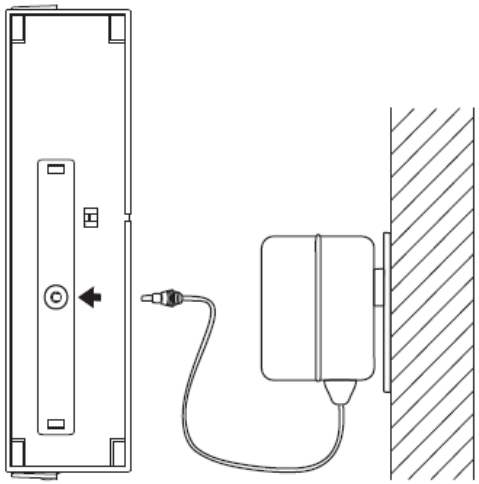
If the temperature goes above or below the temperature measuring ranges (see the specifications), the display will show " ▪▪.- ".

The kinetic wave display shows the signal receiving status of the main unit. There are three possible forms:

The unit is in searching mode.	•
Temperature readings are securely registered.	
No signals.	°C

Transmission collision
Signals from other household devices, such as wireless door bells, home security systems and entry controls, may interfere with those of this product and cause temporarily reception failure. This is not unusual and does not affect the general performance of the product. The transmission and reception of temperature readings will resume once the interference recedes.

E) AC-DC adapter for continued projection



Use 4 x AA, 1.5V batteries and the AC-DC adapter (AC230V, 50Hz-DC7.5V, 100mA) included.

Important:
Please make sure your household voltage matched with the voltage supported by the adapter, or it will damage the product and the adapter.

4. OPERATING INSTRUCTIONS

A) Weather Forecast

The unit is capable of detecting atmospheric pressure changes. Based on collected data, it can predict the weather for the forthcoming 12 to 24 hours.

Indicator displays on the unit			
Forecast	Sunny	Slightly Cloudy	Cloudy
Indicator displays on the unit			
Forecast	Rainy	Snowy	

Note:

1. The accuracy of a general pressure-based weather forecast is about 70%
2. The weather forecasts may not necessarily reflect the current situation
3. The Sunny icon as applies to night time, implies clear weather

Atmospheric Pressure

The atmospheric pressure indicator, in the weather forecast window, uses arrows to
indicate if the atmospheric pressure is rising, steady, or falling

Arrow indicator			
Pressure trend	Rainy	Steady	Falling

B) Radio controlled time and alarm setting

After the batteries are installed, the clock will automatically search the time signal. It takes about 3-5 minutes to finish he process.
If the time signal is received, the date and time will be set automatically and the radio control signal icon [ ] turns on.
If the clock fails to receive the time signal, it will be show [ ]. Then the user can set the time manually.
The clock and the calendar share the same section of the displays. The calendar is displayed in a day-month format.
Each press on the **MODE** button will change the display between clock with second, clock with day of week, zone time with day of week, zone time with second and day-month.

How to set the clock and other display options manually

1. Press [**MODE**] key to select normal clock display.
2. Hold [**MODE**] for three seconds.
3. Every setting to be made is shown by the relevant blinking of the function to be set. From setting to setting, you will get by pressing [**MODE**]. Use [▲] or [▼] to change the blinking value
4. Setting of the language. Options are German (DE), French (Fr), Italian (IT), Spanish (SP), Dutch (DU), English (EN)
5. Repeat the same procedure to set the temperature unit (°C or °F), year, month, day, date-month format, 12/24 hour format, hour, minute.

How to set ZONE time

1. Press [**MODE**] to select the zone time display
2. Press [**MODE**] for 3 seconds to enter zonetime setting mode. Zone time will flash
3. Press [▲] or [▼] to set the zonetime. Each step is 30 minutes plus/minus from the normal time
4. Press [**MODE**] to confirm.

Disable the reception of the radio controlled clock
If you are using this product outside the central European timezone, you may disable the reception of the radio controlled clock. Press min. 3 seconds the key [▲].
The receptor signal [ ] will then disappear from the display. To re-enable the time signal reception, press again for min. 3 seconds the [▲] key.

C) How to set, activate and stop the alarm
The HBR326P offers 3 different alarms:
W- Weekday alarm
The alarm will be activated and the icon will flash on every weekday (Mo-Fr) once the alarm activated and the alarm time is reached.
S - Single alarm
The alarm will be activated and the icon will flash one time once the alarm is activated and the alarm time is reached.
Upon stopping the alarm with the key ALARM, it will be disabled and not sound again except you activate it again.
Pre-AL - Pre-alarm
Above alarms can be influenced with this function. If the outdoor temperature (channel 1) reaches 0°C or less, then the alarm will be activated earlier than the originally set time. The setting can be made for 15, 30, 45, 60, or 90 minutes earlier alarm time.

To set an alarm:
1. Press [**ALARM**]. In the place of the date-display you will see the alarm status. If the alarm is disabled, you will see the text "OFF". If you see a time (hh:mm), then the alarm is enabled. By pressing [▲] or [▼] you may simply activate or deactivate the alarm.
2. Hold [**ALARM**] for three seconds to set the alarm time. The hour digits will blink.
3. Enter the hour using [▲] or [▼].
4. Press [**ALARM**]. The minute digits will blink.
5. Enter the minutes using [▲] or [▼].
6. Press [**ALARM**] and enter the desired snooze time (1-59 minutes) by pressing [▲] or [▼].
7. Press [**ALARM**] to exit
8. Repeat the same procedure to set single alarm.

The alarm "W", " S " and "PRE-AL" icons will be displayed indicating which alarm is armed.
Press MODE to return to clock display mode.

Snooze feature
When the alarm sound is on, press the snooze key. The snooze cycle will be restarted if you press the snooze key again.
If you leave the alarm sound on for 2 minutes, it will enter the snooze cycle automatically (up to 2 times max.).

How to stop an alarm
Press [**ALARM**] on the unit to stop an alarm.

D) Temperature Alarm
The HBR326P is offering an Alarm function on the outside temperatures. You may define, within the measuring range, your own limits and thereby use your personal alarm profile.
Programmable alarm limits HI [▲Line] and LOW [▼Line]: -50°C bis +60°C

An acoustic alarm is triggered as soon as the programmed limit is reached by one of the outside sensors (channel 1, 2 or 3). The HI/LOW alarm limits are valid for all 3 sensors and will be active as soon as one sensor measures a temperature reaching the programmed HI or LOW limits. Subject to your needs, we do recommend to use only one outside sensor if you want to make use of this alarm function.

You may set, within the given range, your own alarm limits following your own needs.

The Temperature alarm can be programmed as follows:
1. Press the **[ALARM]** key repeatedkly until you'll get in the temperature display the icon [▲Line] along with the text "OFF" or a specific temperature value.
   OFF means : Alarm is not active
   Temperature: This is the HI limit set. An alarm will sound as soon as a higher temperature is measured.
2. With the keys [▲] or [▼] you may enable or disable this alarm.
3. When a temperature value is shown, you may now programme it by pressing the key **[ALARM]** for 2 seconds. The temperature value will now flash.
4. By using the keys [▲] or [▼] you may now set the desired alarm limit. After setting this limit, you can now press **[ALARM]** and thereby confirm you setting.
5. By pressing **[ALARM]** again, you may now repeat above 4 steps and define the lower alarm limit.

Once a HI or LOW limit is reached, an accoustic alarm will sound for 1 minute and, depending on which alarm is triggered, the matching icon will flash [▲Line / ▼Line].
The alarm may be interupted in two ways:
- Accoustic alarm: Press **[SNOOZE]**
- Accoustic and flashing icon: Press **[ALARM]**

5. SPECIFICATIONS

Temperature
(Main unit / Indoor temperature measurement)

Operating range	: -5°C to +50°C (23.0°F to 122.0°F)
Temperature resolution	: 0.1°C (0.2°F)

Temperature (remote unit)

Operating range	: -15°C to +60°C (5°F to 140°F)
Temperature resolution	: 0.1°C (0.2°F)
RF transmission frequency	: 433MHz
Maximum No. of Remote unit	: 3
RF transmission range	: Maximum 30 meters (open area)
Temperature sensing cycle	: around 43-47 seconds

Calendar clock
12/24 hr display with hh:mm
Date format: Day-Month or Month-Day
Day of week selectable in 6 language (EN,GE,FR,IT,SP,DU)
2 minute crescendo alarm with snooze
Pre-alarm for ice alert

Power

Main unit	: use 4pcs UM-3 (resp. AA) 1.5V battery
Remote sensing unit	: use 2pcs UM-3 or AA 1.5V battery

Weight

Main unit	: 378g (without battery)
Remote sensing unit	: 60g (without battery)

Dimension

Main unit	: 183(L)x120(H)x48(D)mm
Remote sensing unit	: 55.5(L)x101(H)x24(D)mm

6. PRECAUTIONS

The HBR326P is engineered to give you years of satisfactory service if you handle it carefully.
Here are a few precautions:

1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive material. They may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction.
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
5. Only use fresh batteries as specified in the user's manual. Do no mix new and old batteries as the old ones may leak.
6. Always read the user's manual thoroughly before operating the unit.

CAUTION

- the content of this manual is subject to change without further notice.
- Due to printing limitation, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer (© Irox Development Technology).

EC-Declaration of conformity

Product: HBR326P
This product contains the approved transmitter and complies with the essential requirements of Article 3 of the R&TTE 1995/EC Directive, if used for its intended use and that the following standard(s) has/have been applied:

Efficient use of radio frequency spectrum
(Article 3.2 of the R&TTE Directive)
applied standard(s) **EN 300 200-1,3:2000**
Electromagnetic compatibility
(Article 3.1.b of the R&TTE Directive)
applied standard(s) **EN 301 489-1,3:2000**
applied standard(s) **EN 300 339: 1998**

Additional information:
The product is therefore conform with the Low Voltage Directive 73/23/Ec, The EMC Directive 89/336/EC and R&TTE Directive 1998/5/EC (appendix II) and carries the respective CE marking.

RTTE compliant countries:
ALL EU countries, Switzerland (**CH**)
and Norway (**N**)